TABLE 59. Statistical profile of postgraduation plans of doctorate recipients in engineering fields, by sex and field of study: 2009

Characteristic	All engineering fields	Aerospace/ aeronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Industrial engineering	Materials science engineering	Mechanical engineering	Other engineering
All doctorate recipients (number)	7,634	296	808	708	1,694	252	622	1,095	2,159
					Number				
Postgraduation status ^a									
Definite postgraduation study	1,643	59	222	132	257	30	164	251	528
Definite employment	2,832	116	310	272	731	99	172	402	730
Seeking employment or study	2,070	78	188	205	460	73	196	288	582
Other ^b	241	8	20	16	62	9	19	32	75
					Percent				
Definite postgraduation study ^{c,d}	,								
Postdoc fellowship	32.2	30.5	33.8	26.5	31.5	33.3	26.8	27.5	37.3
Postdoc research associateship	65.5	67.8	64.4	69.7	66.5	63.3	72.6	70.1	59.8
Other ^e	2.3	1.7	1.8	3.8	1.9	3.3	0.6	2.4	2.8
Definite employment ^f									
Academe	17.5	20.7	7.7	32.0	13.8	32.3	12.2	18.9	17.9
Government	9.1	19.8	4.5	13.2	7.1	D	D	8.5	10.4
Industry/business ^g	69.2	50.9	83.9	51.5	75.1	58.6	73.8	69.7	66.7
Nonprofit	2.2	5.2	2.3	D	1.9	D	D	1.2	3.2
Other/unknown ^h	2.0	3.4	1.6	D	2.1	1.0	D	1.7	1.8
Primary activity ⁱ									
R&D	72.9	72.0	85.5	38.9	82.9	47.3	83.8	76.9	68.7
Teaching	8.5	12.1	3.4	16.4	6.5	22.0	4.4	9.9	7.7
Management or administration	5.7	7.5	D	7.0	D	11.0	4.4	4.1	8.3
Professional services	11.4	6.5	D	36.1	D	15.4	5.0	8.5	13.7
Other	1.4	1.9	1.4	1.6	0.7	4.4	2.5	0.6	1.7
Secondary activity ⁱ									
R&D	13.9	15.9	6.2	26.2	10.0	26.4	6.9	14.6	15.8
Teaching	8.3	7.5	3.1	12.3	7.1	11.0	3.8	10.5	9.9
Management or administration	17.9	23.4	23.4	11.9	16.5	13.2	21.9	18.5	17.5
Professional services	6.3	7.5	5.2	8.2	5.5	11.0	4.4	6.1	6.6
Other	2.1	0.9	3.1	1.6	2.1	2.2	1.9	1.9	2.3
No secondary activity	51.6	44.9	59.0	39.8	58.8	36.3	61.3	48.5	47.9
Activity unknown	8.3	7.8	6.5	10.3	7.4	8.1	7.0	9.7	9.0
Activity unknown	8.3	7.8	0.0	10.3	7.4	ŏ.1	7.0	9.1	9.0
Postgraduation location ^j	00 /	00.0	00.0	00.4	00.0	00.0	07.7	00.0	00.0
United States ^k	88.6	90.9	90.8	88.1	88.2	82.9	86.6	88.2	89.3
New England	7.4	D	7.9	3.7	9.4	D	6.0	6.1	7.8
Middle Atlantic	12.8	6.3	13.9	8.2	13.0	11.6	14.0	12.1	14.6
East North Central	11.2	10.9	13.7	9.9	7.9	13.2	11.0	16.4	10.3
West North Central	3.3	3.4	3.9	4.5	2.9	3.9	3.9	3.1	2.9
South Atlantic	13.6	18.9	12.0	15.8	11.4	22.5	13.7	11.2	14.8

TABLE 59. Statistical profile of postgraduation plans of doctorate recipients in engineering fields, by sex and field of study: 2009

		Aerospace/					Materials		
01 1 1 1 1	All engineering fields	aeronautical	Chemical	Civil	Electrical	Industrial	science	Mechanical	Other
Characteristic		engineering	engineering	engineering	engineering	engineering	engineering	engineering	engineering
East South Central	2.5	D	1.1	3.5	1.8	D	1.8	3.5	2.8
West South Central	7.8	7.4	12.4	11.1	5.1	11.6	3.0	6.1	8.6
Mountain	6.4	D	6.8	8.2	4.5	D	8.6	7.8	5.9
Pacific and insular	23.1	21.1	18.4	21.8	31.4	9.3	24.4	21.6	21.1
Not in United States	11.3	9.1	9.2	11.9	11.6	17.1	13.4	11.6	10.6
Location unknown	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.1
Male doctorate recipients (number)	6,006	254	592	560	1,435	186	466	942	1,571
					Number				
Postgraduation status ^a									
Definite postgraduation study	1,279	D	160	106	220	D	121	219	373
Definite employment	2,293	D	229	214	633	D	129	349	560
Seeking employment or study	1,585	64	139	159	382	52	145	248	396
Other ^b	179	7	12	15	47	7	14	24	53
	Percent								
Definite postgraduation study ^{c,d}									
Postdoc fellowship	31.8	D	32.5	D	30.5	D	26.4	28.3	37.0
Postdoc research associateship	65.9	D	65.6	D	67.3	D	73.6	69.9	60.3
Other ^e	2.3	1.9	1.9	4.7	2.3	3.7	0.0	1.8	2.7
Definite employment ^f									
Academe	17.1	23.1	7.0	30.8	13.7	D	D	19.5	17.0
Government	9.0	D	D	13.6	7.4	D	D	7.2	9.8
Industry/business ⁹	69.9	50.0	83.4	53.3	75.4	60.0	75.2	70.2	68.0
Nonprofit	2.0	D	D	D	1.3	D	D	1.4	3.2
Other/unknown ^h	2.0	2.9	2.2	D	2.2	0.0	D	1.7	2.0
Primary activity ⁱ									
R&D	74.1	70.4	86.4	39.8	82.1	47.8	83.3	78.7	71.7
Teaching	8.1	13.3	D	D	6.5	22.4	D	D	6.5
Management or administration	5.8	8.2	D	D	5.1	D	D	D	7.9
Professional services	10.9	7.1	7.0	35.6	5.6	D	D	7.0	12.8
Other	1.1	1.0	1.9	1.6	0.7	1.5	3.3	0.3	1.2
Secondary activity ⁱ									
R&D	13.6	D	D	26.7	D	26.9	D	13.7	14.4
Teaching	8.4	8.2	D	11.0	7.3	7.5	D	D	10.8
Management or administration	19.3	25.5	23.0	D	D	17.9	23.3	19.0	19.5
Professional services	6.4	D	D	D	5.3	D	D	D	6.5
Other	2.0	0.0	2.8	1.6	2.0	1.5	0.8	2.2	2.6
No secondary activity	50.2	D	58.2	39.8	56.0	D	61.7	47.9	46.3
Activity unknown	8.5	5.8	7.0	10.7	7.4	10.7	7.0	9.7	9.3

TABLE 59. Statistical profile of postgraduation plans of doctorate recipients in engineering fields, by sex and field of study: 2009

	All angineering	Aerospace/	Chaminal	Civil	Floatrical	Industrial	Materials	Maahaniaal	Othe
aracteristic	All engineering fields	aeronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Industrial engineering	science engineering	Mechanical engineering	engineerin
Postgraduation location ^j									
United States ^k	88.0	90.4	90.0	88.4	87.2	80.4	87.6	88.0	88.
New England	7.4	D	8.7	D	9.3	D	D	6.2	7.!
Middle Atlantic	12.2	D	13.6	D	12.2	D	14.0	12.1	14.0
East North Central	11.5	D	13.9	10.0	8.1	D	D	17.4	9.8
West North Central	3.3	D	3.9	3.8	D	D	D	D	3.
South Atlantic	13.3	17.2	11.8	16.9	11.5	22.5	14.4	11.3	13.
East South Central	2.5	D	1.5	D	D	D	D	D	2.
West South Central	7.7	8.3	11.3	11.3	5.0	D	D	D	9.
Mountain	6.4	8.9	7.2	7.2	4.3	D	D	7.0	6.
Pacific and insular	23.1	20.4	17.5	22.2	31.2	8.8	23.2	20.8	21.
Not in United States	11.8	9.6	10.0	11.6	12.5	19.6	12.4	11.8	11.
Location unknown	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.
Female doctorate recipients (number)	1,623	41	216	148	259	66	156	152	58
	Number								
Postgraduation status ^a									
Definite postgraduation study	364	D	62	26	37	D	43	32	15
Definite employment	539	D	81	58	98	D	43	53	17
Seeking employment or study	484	14	49	46	78	21	51	40	18
Other ^b	62	1	8	1	15	2	5	8	2
D 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Percent								
Definite postgraduation study ^{c,d}	22.5	D	27.1		27.0		27.0	21.0	20
Postdoc fellowship	33.5	D	37.1	D	37.8	D	27.9	21.9	38.
Postdoc research associateship	64.0	D	61.3	D	62.2	D	69.8	71.9	58.
Other ^e	2.5	0.0	1.6	0.0	0.0	0.0	2.3	6.3	3.3
Definite employment ^f									
Academe	19.3	D	9.9	36.2	14.3	D	D	15.1	21
Government	9.6	D	D	12.1	5.1	D	D	17.0	12.
Industry/business ^g	66.4	58.3	85.2	44.8	73.5	54.2	69.8	66.0	62.
Nonprofit	2.8	D	D	D	6.1	D	D	D	2.
Other/unknown ^h	1.9	8.3	0.0	D	1.0	4.2	D	1.9	1.:
Primary activity ⁱ									
R&D	68.1	88.9	83.1	35.8	87.9	45.8	85.0	64.6	59.0
Teaching	10.2	D	D	D	6.6	20.8	D	D	11.
Management or administration	5.4	D	D	D	D	D	D	D	9.
Professional services	13.9	D	D	37.7	D	D	D	18.8	16.
Other	2.4	11.1	0.0	1.9	1.1	12.5	0.0	2.1	3.3

Secondary activityi

TABLE 59. Statistical profile of postgraduation plans of doctorate recipients in engineering fields, by sex and field of study: 2009

Characteristic	All engineering fields	Aerospace/ aeronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Industrial engineering	Materials science engineering	Mechanical engineering	Other engineering
R&D	14.9	D	D	24.5	D	25.0	D	20.8	20.5
Teaching	7.6	D	D	17.0	5.5	20.8	D	D	7.1
Management or administration	12.0	D	24.7	D	D	D	17.5	14.6	10.9
Professional services	5.8	D	D	D	6.6	D	D	D	7.1
Other	2.4	11.1	3.9	1.9	2.2	4.2	5.0	0.0	1.3
No secondary activity	57.2	D	61.0	39.6	76.9	D	60.0	52.1	53.2
Activity unknown	7.6	25.0	4.9	8.6	7.1	0.0	7.0	9.4	8.2
Postgraduation location ^j									
United States ^k	91.0	94.4	93.0	86.9	94.1	92.6	83.7	89.4	92.0
New England	7.0	D	5.6	D	10.4	0.0	D	5.9	8.6
Middle Atlantic	14.8	D	14.7	D	17.8	D	14.0	11.8	16.3
East North Central	10.1	D	13.3	9.5	6.7	D	D	9.4	12.0
West North Central	3.4	D	4.2	7.1	D	D	D	D	2.5
South Atlantic	14.8	33.3	12.6	11.9	11.1	22.2	11.6	10.6	18.5
East South Central	2.5	D	D	D	D	D	D	D	3.1
West South Central	8.0	D	15.4	10.7	5.2	D	D	D	7.4
Mountain	6.6	D	5.6	11.9	5.2	D	D	12.9	4.0
Pacific and insular	23.1	27.8	21.0	20.2	32.6	11.1	27.9	27.1	19.4
Not in United States	9.0	D	7.0	13.1	5.9	D	16.3	10.6	8.0
Location unknown	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

D = suppressed to avoid disclosure of confidential information.

NOTE: Due to rounding, the sum of percentages may not equal to 100.

SOURCE: NSF/NIH/USED/USDA/NEH/NASA, 2009 Survey of Earned Doctorates.

^a Includes only respondents who responded to postgraduation status.

^b Includes respondents who indicated that they did not plan to work or study, respondents who indicated some other type of postgraduation plans, and respondents who indicated definite plans for other full-time degree program.

^c Does not include respondents who indicated plans for other full-time degree program.

^d Percentages are based on number of doctorate recipients reporting definite postgraduation plans for study and type of postdoctoral study.

e "Other" includes respondents who indicated definite postgraduation study plans for traineeship, internship/clinical residency, or other study.

^fPercentages are based on number of doctorate recipients reporting definite postgraduation plans for employment.

^g Includes doctorate recipients who indicated self-employment.

^h "Other" is mainly composed of elementary and secondary schools.

¹ Percentages are based on number of doctorate recipients reporting definite postgraduation plans for employment and primary work activity.

¹Percentages are based on number of doctorate recipients reporting definite postgraduation plans and type of plans.

^k Includes cases with a U.S. unknown region of employment after doctorate; see appendix A for states/territories included in regions.